

Summary of Proposed Reliability Standards: CIP-015-1 – Internal Network Security Monitoring (INSM)

Details of Standard(s) Development

Reliability Standards Authority: NERC

Standard(s)	<ul style="list-style-type: none"> CIP-015-1 – Internal Network Security Monitoring (INSM)
Purpose	To improve the probability of detecting anomalous or unauthorized network activity in order to facilitate improved response and recovery from an attack.
Change Type:	FERC DIRECTIVE
Affected Functional Entities:	<ul style="list-style-type: none"> Balancing Authority (BA) Distribution Provider (DP) Generator Operator (GOP) Generator Owner (GO) Reliability Coordinator (RC) Transmission Operator (TOP) Transmission Owner (TO)
Ballot Results:	<ul style="list-style-type: none"> CIP-015-1 93.36% Quorum / 76.57% Approval
Ontario Participant Support:	<ul style="list-style-type: none"> There were 256 votes cast by NERC registered entities. 2 OEB rate-regulated entities voted (2/256). Both were Negative.
Impact Within Ontario	Not Assessed.

Standard Development Milestones

Date	Action
May 9, 2024	<ul style="list-style-type: none">Adopted by NERC Board of Trustees
June 24, 2024	<ul style="list-style-type: none">NERC Petition for Approval
July 8, 2024	<ul style="list-style-type: none">IESO Posting Date
November 5, 2024	<ul style="list-style-type: none">End of OEB Review Period
TBD	<ul style="list-style-type: none">FERC Order Issued
TBD	<ul style="list-style-type: none">US Mandatory Enforcement Date
TBD	<ul style="list-style-type: none">Ontario Enforcement Date (Milestones in Reliability Standard Development and Lifecycle)

Summary

Proposed Reliability Standard CIP-015-1 establishes requirements for internal network security monitoring (INSM) for network traffic inside an Electronic Security Perimeter (ESP), by requiring Responsible Entities to implement INSM systems and processes.

Specifically, Responsible Entities would evaluate their networks within ESP and identify the network data feed(s) that would be most effective for detecting anomalous activity in their particular network configurations. Responsible Entities would then be required to collect, analyze, and respond appropriately to anomalous activity within applicable networks. Responsible Entities would also be required to evaluate and escalate these anomalous activity occurrences, if appropriate, for further investigation.

In addition, the proposed standard would require Responsible Entities to protect relevant network data collected under the standard to prevent unauthorized data manipulation, and to preserve the data, as needed, for additional investigation.

Other Salient Information

Stakeholder Consultation

NERC Reliability Standards Development Procedure

- NERC develops Reliability Standards in accordance with Section 300 (Reliability Standards Development) of its Rules of Procedure and the NERC Standard Processes Manual;

- NERC’s rules provide for reasonable notice and opportunity for public comment, due process, openness, and a balance of interests in developing Reliability Standards;
- The development process is open to any person or entity with a legitimate interest in the reliability of the Bulk Power System. NERC considers the comments of all stakeholders;
- Stakeholders must approve, and the NERC Board of Trustees must adopt, a new or revised Reliability Standard before NERC submits the Reliability Standard to FERC for approval;
- NERC provided public notices for comments and balloting as follows:
 - Standard Authorization Request posted for comment: April 6 – May 5, 2023
 - Initial Draft Posting: December 14, 2023 – January 17, 2024
 - Draft 1 of the Proposed Standard: February 27– March 18, 2024
 - Draft 2 of the Proposed Standard: April 5 – April 17, 2024
 - Final Draft of the Proposed Standard: April 24 – April 30, 2024

IESO Reliability Standards Standing Committee

- The purpose of the Reliability Standards Standing Committee (RSSC) is to assist market participants to develop a more comprehensive understanding of their reliability obligations by:
 - Notifying participants of reliability-related information on new and developing reliability standards;
 - Providing a forum to discuss and develop consensus comments on new and developing reliability standards; and
 - Engaging participants in the standard development process of NERC and NPCC.
- The majority of stakeholder engagement takes place by email communications and is open to any stakeholder wishing to join
- The IESO presented the proposed changes at the following RSSC meetings:
 - September 14, 2023
 - March 14, 2024
 - June 13, 2024